

KONS/ ★ V06 85-029816/05 ★SU 1096-736-A
Permanent magnets motor with disc armature - increases active
surface area of magnets rod faces sloping to their geometrical
axis

KONSTANTINOV P I 05.02.82-SU-395998

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One face of the magnets is attached to the magnetic core and they are polarised along the axis of the machine with alternate direction of the polarities. The faces of the rods are at 15-45 deg. angle to their geometrical and the machine axis.

The application of voltage to the printed armature (3) through the sliding contacts (8) of the brushes gives rise to a torque due to the interaction of armature current and flux of permanent magnets (6). The change of rotation direction is achieved by altering the current direction in the armature (3), while the inclination of the magnets increases the permeability in the air gap, and thus raises the flux and the torque of the motor.

ADVANTAGE - The inclined permanent magnets increase the area of their active end face augmenting the specific power per unit of the motor volume. Bul.21/7.6.84 (3pp Dwg.No.1/1)

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V6-M1A V6-M7

